

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Nobuhiko OOHARA et al. Art Unit: 1621
Application No.: 10/564,984 Examiner: Nwaonicha, C.
Title: NOVEL OPTICALLY ACTIVE PHOSPHORUS-CHIRAL DIPHOSPHETANE
COMPOUND, INTERMEDIATE THEREFOR, AND TRANSITION METAL
COMPLEX HAVING THE COMPOUND AS LIGAND
International Application No.: PCT/JP2004/010670
International Filing Date : July 27, 2004
Priority Date : July 28, 2003
U.S. Filing Date : January 18, 2006

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

TRANSMITTAL LETTER FOR INFORMATION DISCLOSURE STATEMENT
AFTER THE MAILING DATE OF THE FIRST OFFICE ACTION
ON THE MERITS, BUT BEFORE THE MAILING DATE OF A
FINAL ACTION (37 CFR 1.97(c))

Sir:

The Information Disclosure Statement transmitted herewith is being filed under 37 CFR 1.97(c) after the mailing date of the first Office Action on the merits, but before the mailing date of a final action under § 1.113.

The required fees are calculated below:

Information Disclosure Statement Fee (set forth in 37 CFR. 1.17(p))	<u>\$180.00</u>
TOTAL FEE DUE:	<u>\$180.00</u>

THE COMMISSIONER IS AUTHORIZED TO CHARGE THIS FEE AND ANY OTHER FEES WHICH MAY BE REQUIRED OR CREDIT ANY OVERPAYMENT TO THE CREDIT CARD NUMBER LISTED ON THE ATTACHED CREDIT CARD PAYMENT FORM (PTO-2038 FORM), REFERENCING ATTORNEY DOCKET NO. 0092/019001. A DUPLICATE COPY OF THIS PAPER IS ENCLOSED.

06/11/2007 MKAYPAGH 00000104 10564984

03 FC:1806

180.00 OP

Respectfully submitted,



Randolph A. Smith
Reg. No. 32,548

Date: June 7, 2007

SMITH PATENT OFFICE
1901 Pennsylvania Ave., N.W.
Suite 901
Washington, DC 20006-3433
Telephone: 202/530-5900
Facsimile: 202/530-5902
Oohara060707



PATENT
ATTORNEY DOCKET NO. 0092/019001

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Nobuhiko OOHARA et al. Art Unit: 1621
Application No.: 10/564,984 Examiner: Nwaonicha, C.
Title: NOVEL OPTICALLY ACTIVE PHOSPHORUS-CHIRAL DIPHOSPHETANE
COMPOUND, INTERMEDIATE THEREFOR, AND TRANSITION METAL
COMPLEX HAVING THE COMPOUND AS LIGAND
International Application No.: PCT/JP2004/010670
International Filing Date : July 27, 2004
Priority Date : July 28, 2003
U.S. Filing Date : January 18, 2006

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

Pursuant to their duty of good faith and candor as set forth in 37 CFR 1.56(a), applicants request that the references cited on attached form PTO-1449 (a copy of which is enclosed) be considered by the Examiner.

Enclosed also please find copies of the Supplementary European Search Reports from two counterpart applications citing five new references. The relevance of these five references can be seen from the Supplementary European Search Reports.

This Statement is being filed under 37 CFR 1.97(c) after the mailing date of the first Office Action on the merits, but before the mailing date of a final action under § 1.113.

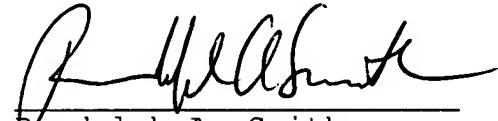
The \$180.00 fee set forth in 37 CFR 1.17(p) for submission of an Information Disclosure Statement under § 1.97(c) is currently due. As stated in the attached Transmittal Letter, the Commissioner is authorized to charge this \$180.00 fee and any other fees which may be required or credit any overpayment to the Credit Card number listed on the attached Credit Card Payment Form (PTO-2038 Form), referencing Attorney Docket No. 0092/019001.

Information Disclosure Statement
Application No.: 10/564,984
Page 2

It is respectfully requested that the above information be considered by the Examiner and that a copy of the enclosed Form PTO-1449 be returned indicating that such information has been considered.

If there are any questions regarding this application, please telephone the undersigned at the telephone number listed below.

Respectfully submitted,



Randolph A. Smith
Reg. No. 32,548

Date: June 7, 2007

SMITH PATENT OFFICE
1901 Pennsylvania Ave., N.W.
Suite 901
Washington, DC 20006-3433
Telephone: 202/530-5900
Facsimile: 202/530-5902
Oohara060707



Substitute for form 1449A/PTC

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 1 of 2

Complete if Known

Application Number	10/564,984
Filing Date	January 18, 2006
Applicants	Nobuhiko OOHARA et al.
Group Art Unit	1621
Examiner Name	Nwaonicha, C.
Attorney Docket Number	0092/019001

U.S. PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS

EXAMINER

DATE CONSIDERED

***Examiner:** Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Unique citation designation number. ²Applicant is to place a check mark here if English language Translation is attached. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 2 of 2

Application Number	10/564,984
Filing Date	January 18, 2006
Applicants	Nobuhiko OOHARA et al.
Group Art Unit	1621
Examiner Name	Nwaonicha, C.
Attorney Docket Number	0092/019001

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

EXAMINER INITIAL*	CITE NO. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
		BICKELHAUPT, F., "Di-Grignard Reagents and Metallacycles", Pure & Appl. Chem., 1986, pp. 537-542, Vol. 58, No. 4, IUPAC.	
		WILSON, S. et al., "Preparation of A New Class of C2-Symmetric Chiral Phosphines: The First Asymmetric Staudinger Reaction", Synlett, April 1990, pp. 199-200, No. 4, Thieme International, Stuttgart, Germany.	
		MARINETTI, A. et al., "Synthesis and α -Alkylation of 1-Methylphosphetane Sulfide", Tetrahedron, March 1997, pp. 4363-4370, Vol. 53, No. 12, Elsevier Science Publishers.	
		OHASHI, A. et al., "Improved Synthesis of 1-Adamantylphosphine and Its Use in The Synthesis of Cyclicphosphines Containing 1-Adamantyl Group", Heterocycles, 2000, pp. 905-910, Vol. 52, No. 2.	
		TANG, W. et al., "A Chiral 1, 2-Bisphospholane Ligand With A Novel Structural Motif: Applications In Highly Enantioselective Rh-Catalyzed Hydrogenations", Angewanted Chemie, May 2002, pp. 1612-1614, Vol. 41, No. 9, Wiley-VCH Verlag GmbH, Weinheim, Germany.	

EXAMINER**DATE CONSIDERED**

*Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Unique citation designation number. ²Applicant is to place a check mark here if English language Translation is attached. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.